

Fileupload

A comprehensive file upload component that provides multiple layout variants, drag-and-drop functionality, file validation, and preview capabilities. Built with accessibility in mind and designed for various file upload scenarios including single file uploads, multiple file selections, and enterprise file management interfaces.

How to use

Note : The FileUpload component is standalone and includes all necessary dependencies for icon, button, tag, and common modules.

Basic Usage

Simple file upload with default layout and basic functionality.

```
import { AavaFileUploadComponent } from "@aava/play-core";
```

Layout Variants

```

<div>
    <h1>Default Preview Layout</h1>
    <aava-file-upload
        componentTitle="Default Preview"
        previewLayout="default"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles] = "5"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>Table Preview Layout</h1>
    <aava-file-upload
        componentTitle="Table Preview"
        layout="icon"
        previewLayout="table"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles] = "5"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>Table with Custom Height (200px)</h1>
    <aava-file-upload
        componentTitle="Scrollable Table"
        previewLayout="table"
        layout="icon"
        [previewLayoutHeight] = "200"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles] = "10"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>Table with Custom Columns</h1>
    <aava-file-upload
        previewLayout="table"
        layout="icon"
        [tableColumns] = "customColumns"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles] = "5"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

```

The component supports multiple layout options to fit different UI contexts and use cases:
default – Standard button and file display layout.

- list – Displays files in a stacked list with remove options.
- tags – Shows files as removable tags, suitable for compact interfaces.
- icon – Drag-and-drop area with rich visual preview and side-by-side file listing.
- Each layout offers unique ways to visualize uploaded files and actions.

Size Variants

```
selectedFiles: File[] = [];

customColumns = [
  { key: 'fileName', label: 'File Name', visible: true },
  { key: 'fileSize', label: 'Size', visible: true },
  { key: 'fileType', label: 'Type', visible: false }, // Hidden column
  { key: 'uploadDate', label: 'Date', visible: true },
  { key: 'actions', label: 'Actions', visible: true },
];

onFileChange(files: File[]): void {
  console.log('Files changed:', files);
  this.selectedFiles = files;
}
```

Available Sizes

File Upload buttons support multiple size options to align with your design scale:

- xs (Extra Small) – For dense layouts.
- sm (Small) – Compact option.
- md (Medium) – Default size for general usage.
- lg (Large) – For prominent actions or primary uploads.
- xl (Extra Large) – When emphasizing upload as a major user task.

File Validation

```

<div>
    <h1>Upload Icon - Left Position</h1>
    <aava-file-upload
        componentTitle="Icon Left"
        uploadIconPosition="left"
        uploadIconName="upload"
        uploadButtonLabel="Upload Files"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles]="3"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>Upload Icon - Right Position</h1>
    <aava-file-upload
        componentTitle="Icon Right"
        uploadIconPosition="right"
        uploadIconName="Upload"
        uploadButtonLabel="Choose Files"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles]="3"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>Upload Icon - Only (No Text)</h1>
    <aava-file-upload
        componentTitle="Icon Only"
        uploadIconPosition="only"
        uploadIconName="upload"
        [allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
        [maxFiles]="3"
        (selectedList)="onFileChange($event)"
    >
    </aava-file-upload>
</div>

<div>
    <h1>All Custom Icons Combined</h1>
    <aava-file-upload
        componentTitle="All Custom"
        uploadIconPosition="right"
        uploadIconName="cloud-upload"
        uploadButtonLabel="Upload to Cloud"
        deleteIconPosition="left"
        deleteIconName="trash"
        deleteButtonLabel="Delete All"
        tagIcon="x"
        layout="tags"
    >
    </aava-file-upload>
</div>

```

```

[allowedFormats]=["pdf", 'doc', 'jpg', 'png']"
[maxFiles]="5"
(selectedList)="onFileChange($event)"
&gt;
</aava-file-upload>
</div>;

```

Built-in validation ensures that uploaded files meet specific criteria:

- Allowed Formats : Restrict file types with the allowedFormats input.
- File Size Limit : Prevent large files using the maxFileSize property.
- Duplicate Check : Detect and warn users about duplicate uploads. Validation feedback is displayed inline with error messages.

Single vs Multiple

```

selectedFiles: File[] = [];

onFileChange(files: File[]): void {
  console.log('Files changed:', files);
  this.selectedFiles = files;
}

```

Configure whether users can upload a single file or multiple files at once:

- Use singleFileDialog = true for a single-file input.
- Keep it false to allow multi-selection. The component automatically manages file replacement and count validation.

States & Customization

```

// Default allowed formats
allowedFormats = [
  "jpeg",
  "jpg",
  "png",
  "svg",
  "doc",
  "docx",
  "xlsx",
  "txt",
  "pdf",
];

// Custom format restriction
allowedFormats = ["pdf", "doc", "docx"]; // Only document files

```

Customize button variants, labels, colors, and disabled states for consistent UI theming.
The component supports:

- Custom border and divider colors
- Dynamic styles via customStyles
- Disabled state to prevent interactions
- Configurable button variants for upload and delete actions

Preview Layouts

```
// 3MB default
maxFileSize = 3 * 1024 * 1024;

// 10MB limit
maxFileSize = 10 * 1024 * 1024;

// 1MB limit
maxFileSize = 1024 * 1024;
```

Display uploaded files in different preview formats:

- default – Shows file cards with color-coded type indicators.
 - table – Tabular view with configurable columns (fileName, fileSize, fileType, etc.)
- Each layout provides structured visibility of uploaded files and supports deletion.

Advanced Features

```
&lt;div class="error-message" role="alert"&gt;
  Invalid file type. Allowed formats: JPEG, JPG, PNG, SVG, DOC, DOCX, XLSX, TXT,
  PDF.
&lt;/div&gt;
```

Explore extended functionality for advanced scenarios:

- Custom table columns for preview layouts.
- Dynamic color mapping for file types.
- Custom upload animations.
- Event emitters (selectedList, deletedList) for parent integration.

These options make the File Upload component flexible for enterprise-grade workflows.

Icon Customization

```
&lt;div class="error-message" role="alert"&gt;
  File is too large. Maximum size allowed is 3 MB
&lt;/div&gt;
```

Adjust icon styles and placement for both upload and delete actions using these inputs:

- uploadIconName / deleteIconName – Change icon symbols.

- uploadIconPosition / deleteIconPosition – Control left, right, or icon-only layouts.
- tagIcon – Set custom tag icons for tag-based uploads.

This allows seamless integration with your application's visual language.

Features

Upload Methods

- Click to Upload : Traditional file selection via file picker
- Drag and Drop : Intuitive drag-and-drop file upload
- Multiple File Support : Upload single or multiple files
- File Replacement : Replace existing files in single file mode

File Validation

- Format Validation : Restrict file types based on extensions
- Size Validation : Enforce maximum file size limits
- Duplicate Prevention : Prevent duplicate file uploads
- Error Handling : Clear error messages for validation failures

Layout Options

- Inline : Compact form integration
- List : Simple list-based display
- Medium Variant : Enhanced with file tags
- Large Variant : Full-featured with preview
- Customizable : Flexible sizing and theming

User Experience

- Visual Feedback : Clear upload states and progress indicators
- File Preview : Preview uploaded files with metadata
- Responsive Design : Adapts to different screen sizes
- Accessibility : Full keyboard navigation and screen reader support

API Reference

Inputs

Property	Type	Default	Description
theme	'light' 'dark'	'light'	Theme variant for the component
uploaderId	string	"	Unique identifier for the uploader
enableAnimation	boolean	false	Enable animation effects
allowedFormats	string[]	['jpeg', 'jpg', 'png', 'svg', 'doc', 'docx', 'xlsx', 'txt', 'pdf']	Allowed file extensions
single FileMode	boolean	false	Restrict to single file upload
maxFiles	number null	null	Maximum number of files allowed
componentTitle	string	'Upload File Here'	Title displayed in the upload area
supportedFormatLabel	string	'Supported file formats'	Label for supported formats section
maxFileSize	number	3145728 (3MB)	Maximum file size in bytes
showDialogCloseIcon	boolean	true	Show close icon in dialog mode
showUploadButton	boolean	true	Show upload button
layout	'default' 'inline' 'list' 'md-variant' 'lg-variant'	'default'	Layout variant for the component
previewLayout	'default' 'table'	'default'	Preview layout type
previewLayoutHeight	number	0	Custom height for preview layout

Property	Type	Default	Description
singleFileSelectionPosition	'right' 'left'	'right'	Position of single file selection button
uploadButtonSize	'xs' 'sm' 'md' 'lg' 'xl'	'md'	Upload button size
uploadButtonLabel	string	'Upload'	Upload button label text
uploadButtonVariant	ButtonVariant	'primary'	Upload button style variant
uploadIconPosition	'left' 'right' 'only'	'left'	Upload button icon position
uploadIconName	string	'upload'	Upload button icon name
deleteButtonSize	'xs' 'sm' 'md' 'lg' 'xl'	'md'	Delete button size
deleteButtonLabel	string	'Remove All'	Delete button label text
deleteButtonVariant	ButtonVariant	'secondary'	Delete button style variant
deleteIconPosition	'left' 'right' 'only'	'left'	Delete button icon position
deleteIconName	string	'circle-x'	Delete button icon name
disabled	boolean	false	Disable the file uploader component
previewData	any	undefined	External preview data
customStyles	Record<string, string>	{}	CSS custom properties override

Property	Type	Default	Description
borderColor	string	'#9ca1aa'	Border color for upload area
ellipses	'start' 'end' 'middle'	'end'	Ellipses style for long file names
dividerColor	string	'#9ca1aa'	Divider line color
tagIcon	string	'x'	Icon for removable tags
tableColumns	customColumns[]	Predefined column config	Configurable columns for table layout
fileTypeColors	{ [key: string]: string }	undefined	Dynamic colors for file types
border	string	'var(--fileupload-upload-area-default-border)'	Border style for upload area

Outputs

Event	Type	Description
selectedList	EventEmitter<File[]>	Emitted when a list of files is selected
deletedList	EventEmitter<UploadFile[]>	Emitted when a list of files is deleted

Properties

Property	Type	Description
uploadedFiles	File[]	Array of currently uploaded files
fileUploadedSuccess	boolean	Whether file upload was successful

Property	Type	Description
fileFormatError	boolean	Whether there's a file format error
fileSizeError	boolean	Whether there's a file size error
maxFilesError	boolean	Whether maximum files limit is exceeded
isUploadActive	boolean	Whether upload is currently active
viewAll	boolean	Whether to show all files or truncated list
uniqueId	string	Unique identifier for the uploader

Methods

Method	Parameters	Return	Description
openFileSelector()	None	void	Open file selection dialog
resetUpload()	None	void	Reset upload state and clear files
closeUpload()	None	void	Close upload and reset state
removeNewFile()	file: File	void	Remove specific file from list
getFileExtension()	filename: string	string	Get file extension from filename
toggleViewAll()	None	void	Toggle between truncated and full file list

Method	Parameters	Return	Description
allowAccepted()	None	string	Get accepted file types string for input

Computed Properties

Property	Type	Description
allowedFormatsList	string[]	List of allowed file formats

Layout Variants

Default Layout

The standard file upload interface with drag-and-drop support and file list display.

Inline Layout

Compact uploader designed for form integration with minimal space requirements.

Features:

- Single file display
- Upload button with icon
- File name with remove option
- Minimal footprint

List Layout

Simple list-based file display with upload button and file management.

Features:

- List of uploaded files
- File icons and names
- Individual file removal
- Multiple file support

Medium Variant

Enhanced uploader with file tags and grid layout for better file organization.

Features:

- File count header
- Grid-based file display
- File tags with remove functionality
- Bulk remove all option
- Empty state with format information

Large Variant

Full-featured uploader with comprehensive file management and preview capabilities.

Features:

- Drag-and-drop interface
- File preview panel
- Detailed file information
- File type icons
- Comprehensive error handling
- Bulk file management

File Validation

Format Validation

The component validates file types based on the allowedFormats input:

Size Validation

File size validation is controlled by the maxFileSize input:

Duplicate Prevention

The component automatically prevents duplicate file uploads by checking:

- File name
- File size
- File content (basic comparison)

Error Handling

File Format Error

Displayed when an unsupported file type is selected:

File Size Error

Displayed when a file exceeds the maximum size limit:

Maximum Files Error

Displayed when the maximum file limit is exceeded:

Best Practices

Design Guidelines

- Layout Selection : Choose appropriate layout variant for your use case
- File Limits : Set reasonable file size and count limits
- Format Restrictions : Clearly communicate supported file types
- Visual Feedback : Provide clear upload states and progress indicators
- Error Handling : Display user-friendly error messages

Accessibility

- Keyboard Navigation : Ensure full keyboard support for all interactions
- Screen Reader Support : Provide clear labels and state announcements
- Drag and Drop : Support both mouse and keyboard file selection
- Error Announcements : Properly announce validation errors
- Focus Management : Clear focus indicators and logical tab order

Performance

- File Validation : Validate files on selection for immediate feedback
- Memory Management : Handle large files appropriately
- Batch Processing : Consider batch uploads for multiple files
- Progress Indicators : Show upload progress for better UX
- Error Recovery : Allow users to retry failed uploads

User Experience

- Clear Instructions : Provide clear upload instructions and format requirements
- Visual Feedback : Show upload states and file information
- File Preview : Allow users to review files before upload
- Bulk Operations : Support bulk file removal and management
- Responsive Design : Ensure uploader works on all device sizes

Integration

- Form Integration : Properly integrate with Angular forms
- Event Handling : Use the comprehensive event system for upload management
- State Management : Coordinate upload state with your application
- File Processing : Handle file processing and storage appropriately
- Error Handling : Implement proper error handling and user feedback

Responsive Behavior

Mobile Adaptations

The file upload component automatically adapts to mobile screens:

- Touch Optimization : Optimized touch targets for mobile interaction
- Mobile Layout : Appropriate layout adjustments for small screens
- File Selection : Mobile-friendly file selection methods
- Error Display : Mobile-optimized error message display

Breakpoint Behavior

- Desktop ($>768px$) : Full upload interface with all features
- Mobile ($\leq 768px$) : Compact layout with optimized spacing
- File Display : Responsive file list and preview
- Button Sizing : Appropriate button sizes for different screens

Content Considerations

- File Names : File names adapt to different screen widths
- Error Messages : Error messages maintain readability on small screens
- Upload Area : Upload area adapts to available space
- File List : File list maintains usability across screen sizes